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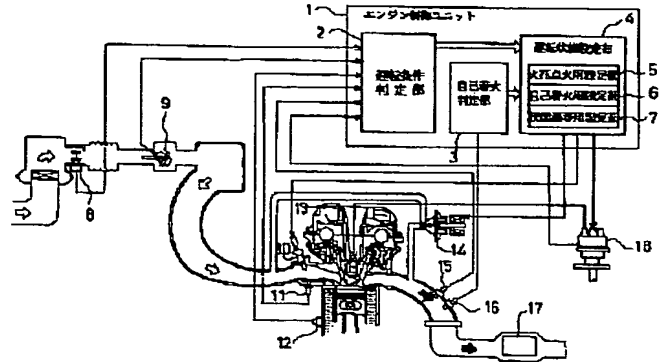
APPLICATION DATE : 22-05-98
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APPLICANT : NISSAN MOTOR CO LTD;

INVENTOR : URUSHIBARA TOMONORI;

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TITLE : SPARK IGNITION TYPE INTERNAL
COMBUSTION ENGINE



ABSTRACT : PROBLEM TO BE SOLVED: To provide a spark ignition type combustion engine capable of conducting stable self ignition operation by monitoring an NOx concentration in exhaust gas.

SOLUTION: An operating condition judging section 2 judges, on the basis of signals from various sensors, which one of self ignition or spark ignition is suited for an operating condition, and informs an operating condition setting section 4 of a result of the judgement. A self ignition judging section 3 judges, on the basis of an NOx concentration before exhaust cleaning detected by an NOx sensor, whether a self ignition actually occurs, and informs the operating condition setting section 4 of a result of the judgement. The operating condition setting section 4 has a setting section for spark ignition 5, a setting section for self ignition 6 and a setting section for condition transition 7; and in the setting for condition transition, when the self ignition judging section 3 judges that a combustion condition to which the operating condition is transited would not occur, the original operating condition is restored.

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